

**McGarry, Sean**

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L6 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:6597 CAPLUS  
DN 130:232278  
TI Angiotensin converting enzyme inhibition reduces the expression of transforming growth factor-.beta.1 and type IV collagen in diabetic vasculopathy  
AU Rumble, Jonathan R.; Gilbert, Richard E.; Cox, Alison; Wu, Leonard; Cooper, Mark E.  
CS Department of Medicine, Austin & Repatriation Medical Centre, University of Melbourne, Heidelberg, VIC 3081, Australia  
SO Journal of Hypertension (1998), 16(11), 1603-1609  
CODEN: JOHYD3; ISSN: 0263-6352  
PB Lippincott Williams & Wilkins  
DT Journal  
LA English  
RE.CNT 27

L6 ANSWER 24 OF 40 MEDLINE DUPLICATE 9  
AN 1999062262 MEDLINE  
DN 99062262 PubMed ID: 9844133  
TI Targeting TGF-beta overexpression in renal disease: maximizing the antifibrotic action of angiotensin II blockade.  
AU Peters H; Border W A; Noble N A  
CS Division of Nephrology, University of Utah School of Medicine, Salt Lake City, Utah, USA.  
NC DK 43609 (NIDDK)  
DK 49342 (NIDDK)  
DK 49374 (NIDDK)  
SO KIDNEY INTERNATIONAL, (1998 Nov) 54 (5) 1570-80.  
Journal code: 0323470. ISSN: 0085-2538.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199902  
ED Entered STN: 19990223  
Last Updated on STN: 19990223  
Entered Medline: 19990211

L6 ANSWER 25 OF 40 SCISEARCH COPYRIGHT 2003 THOMSON ISI  
AN 1998:171204 SCISEARCH  
GA The Genuine Article (R) Number: YY259

TI Expression of transforming growth factor-beta 1 and type IV collagen in the renal tubulointerstitium in experimental diabetes - Effects of ACE inhibition  
AU Gilbert R E (Reprint); Cox A; Wu L L; Allen T J; Hulthen U L; Jerums G; Cooper M E  
CS UNIV MELBOURNE, ENDOCRINOL UNIT, AUSTIN & REPATRIAT MED CTR, DEPT MED, AUSTIN CAMPUS, STUDLEY RD, HEIDELBERG, VIC 3084, AUSTRALIA (Reprint)  
CYA AUSTRALIA  
SO DIABETES, (MAR 1998) Vol. 47, No. 3, pp. 414-422.  
Publisher: AMER DIABETES ASSOC, 1660 DUKE ST, ALEXANDRIA, VA 22314.  
ISSN: 0012-1797.  
DT Article; Journal  
FS LIFE; CLIN  
LA English  
REC Reference Count: 51  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L6 ANSWER 26 OF 40 MEDLINE DUPLICATE 10  
AN 1998184615 MEDLINE  
DN 98184615 PubMed ID: 9525702  
TI Link between angiotensin II and TGF-beta in the kidney.  
AU Wolf G  
CS Department of Medicine, University of Hamburg, Germany..  
wolf@uke.uni-hamburg.de  
SO MINERAL AND ELECTROLYTE METABOLISM, (1998) 24 (2-3) 174-80. Ref: 56  
Journal code: 7802196. ISSN: 0378-0392.  
CY Switzerland  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 199805  
ED Entered STN: 19980514  
Last Updated on STN: 19980514  
Entered Medline: 19980501

L6 ANSWER 35 OF 40 MEDLINE DUPLICATE 14  
AN 96163237 MEDLINE  
DN 96163237 PubMed ID: 8587237  
TI ACE inhibition reduces proteinuria, glomerular lesions and extracellular matrix production in a normotensive rat model of immune complex nephritis.  
AU Ruiz-Ortega M; Gonzalez S; Seron D; Condom E; Bustos C; Largo R; Gonzalez E; Ortiz A; Egido J  
CS Renal Unit, Fundacion Jimenez Diaz, Universidad Autonoma, Madrid, Spain.  
SO KIDNEY INTERNATIONAL, (1995 Dec) 48 (6) 1778-91.  
Journal code: 0323470. ISSN: 0085-2538.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199603  
ED Entered STN: 19960404  
Last Updated on STN: 19960404  
Entered Medline: 19960327

ANSWER 36 OF 37 CAPLUS COPYRIGHT 2003 ACS  
AN 1991:507031 CAPLUS  
DN 115:107031  
TI Transforming growth factor- beta.1 up-regulates type IV collagenase

expression in cultured human keratinocytes

AU Salo, Tuula; Lyons, J. Guy; Rahemtulla, Firoz; Birkedal-Hansen, Henning;

Larjava, Hannu

CS Dep. Oral Surg., Univ. Oulu, Oulu, SF-90220, Finland

SO Journal of Biological Chemistry (1991), 266(18), 11436-41

CODEN: JBCHA3; ISSN: 0021-9258

DT Journal

LA English

L9 ANSWER 31 OF 37 BIOTECHNO COPYRIGHT 2003 Elsevier Science B.V.

AN 1993:23273871 BIOTECHNO

TI Interleukin-1.beta. and transforming growth factor-.alpha./epidermal growth factor induce expression of M(r) 95,000 type IV collagenase/gelatinase and interstitial fibroblast-type collagenase by rat mucosal keratinocytes

AU Lyons J.G.; Birkedal-Hansen B.; Pierson M.C.; Whitelock J.M.; Birkedal-Hansen H.

CS Dept. of Oral Biology, Univ. of Alabama School of Dentistry, SDB Box 54, Birmingham, AL 35294, United States.

SO Journal of Biological Chemistry, (1993), 268/25 (19143-19151)  
CODEN: JBCHA3 ISSN: 0021-9258

DT Journal; Article

CY United States

LA English

SL English

L9 ANSWER 23 OF 37 MEDLINE

DUPLICATE 10

AN 96130535 MEDLINE

DN 96130535 PubMed ID: 8544402

TI Induction of plasminogen activator inhibitor type 1 in murine lupus-like glomerulonephritis.

AU Moll S; Menoud P A; Fulpius T; Pastore Y; Takahashi S; Fossati L; Vassalli J D; Sappino A P; Schifferli J A; Izui S

CS Department of Pathology, University of Geneva Medical School, Switzerland.

SO KIDNEY INTERNATIONAL, (1995 Nov) 48 (5) 1459-68.

Journal code: 0323470. ISSN: 0085-2538.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199602

ED Entered STN: 19960227

Last Updated on STN: 19960227

Entered Medline: 19960214

L9 ANSWER 20 OF 37 MEDLINE

DUPLICATE 8

AN 97081970 MEDLINE

DN 97081970 PubMed ID: 8923213

TI Increased expression of extracellular matrix proteins and decreased expression of matrix proteases after serial passage of glomerular mesangial cells.

AU Schnaper H W; Kopp J B; Poncelet A C; Hubchak S C; Stetler-Stevenson W G; Klotman P E; Kleinman H K

CS Department of Pediatrics, Northwestern University Medical School, Chicago, IL 60611-3008, USA.

NC R01-DK49362 (NIDDK)

SO JOURNAL OF CELL SCIENCE, (1996 Oct) 109 ( Pt 10) 2521-8.

Journal code: 0052457. ISSN: 0021-9533.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199705

ED Entered STN: 19970523  
Last Updated on STN: 19980206  
Entered Medline: 19970515

## McGarry, Sean

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ANSWER 6 OF 9 MEDLINE  
AN 1998324083 MEDLINE  
DN 98324083 PubMed ID: 9659898  
TI 14-3-3 sigma is a p53-regulated inhibitor of G2/M progression.  
AU Hermeking H; Lengauer C; Polyak K; He T C; Zhang L; Thiagalingam S;  
Kinzler K W; Vogelstein B  
CS Johns Hopkins Oncology Center, Baltimore, Maryland, USA.  
NC CA 43460 (NCI)  
CA 57345 (NCI)  
SO MOLECULAR CELL, (1997 Dec) 1 (1) 3-11.  
Journal code: 9802571. ISSN: 1097-2765.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AF029081; GENBANK-AF029082  
EM 199807  
ED Entered STN: 19980811  
Last Updated on STN: 19980811  
Entered Medline: 19980724

L2 ANSWER 7 OF 9 MEDLINE DUPLICATE 3  
AN 96394689 MEDLINE  
DN 96394689 PubMed ID: 8798343  
TI Molecular evolution of the 14-3-3 protein family.  
AU Wang W; Shakes D C  
CS Department of Biology, University of Houston, Houston, TX 77204-5513, USA.  
SO JOURNAL OF MOLECULAR EVOLUTION, (1996 Oct) 43 (4) 384-98.  
Journal code: 0360051. ISSN: 0022-2844.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Space Life Sciences  
EM 199702  
ED Entered STN: 19970227  
Last Updated on STN: 19970227  
Entered Medline: 19970211

L2 ANSWER 9 OF 9 MEDLINE DUPLICATE 4  
AN 93002614 MEDLINE  
DN 93002614 PubMed ID: 1390337  
TI Complementary DNA cloning of a novel epithelial cell marker protein,  
HME1, that may be down-regulated in neoplastic mammary cells.  
AU Prasad G L; Valverius E M; McDuffie E; Cooper H L  
CS Cell and Molecular Physiology Section, National Cancer Institute,  
Bethesda, Maryland 20892.  
SO CELL GROWTH AND DIFFERENTIATION, (1992 Aug) 3 (8) 507-13.  
Journal code: 9100024. ISSN: 1044-9523.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-L04285; GENBANK-M93010; GENBANK-S47136; GENBANK-S47137;  
GENBANK-S47164; GENBANK-S47165; GENBANK-S47166; GENBANK-S47167;  
GENBANK-S47168; GENBANK-S72771  
EM 199211  
ED Entered STN: 19930122  
Last Updated on STN: 19980206  
Entered Medline: 19921113

L6 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2003 ACS

AN 2001:631951 CAPLUS

DN 135:191265

TI Method of immortalization of human keratinocytes by down-regulation of  
14-3-3 sigma expression

IN De Luca, Michele; Dellambra, Elena

PA Provincia Italiana Della Congregazio Ne Dei Figli Dell'immacolata  
Conceno-Instituto Dermopatico Dell'immacolata, Italy

SO Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1127942	A1	20010829	EP 2001-830116	20010221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2001018213		A1	20010830	US 2001-790808 20010223
PRAI IT 2000-RM95		A	20000225	

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 20 OF 33 MEDLINE DUPLICATE 11

AN 2001226831 MEDLINE

DN 21143383 PubMed ID: 11149942

TI Regulation of starch accumulation by granule-associated plant 14  
-3-3 proteins.

AU Sehnke P C; Chung H J; Wu K; Ferl R J

CS Program in Plant Molecular and Cellular Biology, Department of  
Horticultural Sciences, University of Florida, Gainesville, FL 32611,  
USA..

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
AMERICA, (2001 Jan 16) 98 (2) 765-70.

Journal code: 7505876. ISSN: 0027-8424.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200104

ED Entered STN: 20010502

Last Updated on STN: 20030105

Entered Medline: 20010426

L6 ANSWER 21 OF 33 MEDLINE

AN 2000293208 MEDLINE

DN 20293208 PubMed ID: 10831615

TI Downregulation of 14-3-3sigma prevents clonal evolution and leads to  
immortalization of primary human keratinocytes.

AU Dellambra E; Golisano O; Bondanza S; Siviero E; Lacal P; Molinari M;  
D'Atri S; De Luca M

CS Laboratory of Tissue Engineering, IDI, Istituto Dermopatico  
dell'Immacolata, 00040 Rome, Italy.

SO JOURNAL OF CELL BIOLOGY, (2000 May 29) 149 (5) 1117-30.

Journal code: 0375356. ISSN: 0021-9525.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200007

ED Entered STN: 20000714

Last Updated on STN: 20000714

Entered Medline: 20000706

L6 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2003 ACS

AN 1999:405087 CAPLUS

DN 131:57413

TI Protein 14-3-3.sigma. arrest of the cell  
cycle provides the basis for diagnostic assays and therapeutic  
compositions

IN Hermeking, Heiko; Vogelstein, Bert; Kinzler, Kenneth W.

PA The Johns Hopkins Univ., USA

SO PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9931240 A2 19990624 WO 1998-US26924 19981218

WO 9931240 A3 19990902

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,  
MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,  
TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,  
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6335156 B1 20020101 US 1998-210748 19981215

CA 2315279 AA 19990624 CA 1998-2315279 19981218

AU 9918314 A1 19990705 AU 1999-18314 19981218

AU 744193 B2 20020221

EP 1037987 A2 20000927 EP 1998-963256 19981218

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI

US 2002102245 A1 20020801 US 2001-939581 20010828

PRAI US 1997-69416P P 19971218

US 1998-210748 A 19981215

WO 1998-US26924 W 19981218

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NEWS 8 Sep 16        Experimental properties added to the REGISTRY file  
NEWS 9 Sep 16        CA Section Thesaurus available in CAPLUS and CA  
NEWS 10 Oct 01       CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 11 Oct 24       BEILSTEIN adds new search fields  
NEWS 12 Oct 24       Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 13 Nov 18       DKILIT has been renamed APOLLIT  
NEWS 14 Nov 25       More calculated properties added to REGISTRY  
NEWS 15 Dec 04       CSA files on STN  
NEWS 16 Dec 17       PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 17 Dec 17       TOXCENTER enhanced with additional content  
NEWS 18 Dec 17       Adis Clinical Trials Insight now available on STN  
NEWS 19 Jan 29       Simultaneous left and right truncation added to COMPENDEX,  
                        ENERGY, INSPEC  
NEWS 20 Feb 13       CANCERLIT is no longer being updated  
NEWS 21 Feb 24       METADEX enhancements  
NEWS 22 Feb 24       PCTGEN now available on STN  
NEWS 23 Feb 24       TEMA now available on STN  
NEWS 24 Feb 26       NTIS now allows simultaneous left and right truncation  
NEWS 25 Feb 26       PCTFULL now contains images  
NEWS 26 Mar 04       SDI PACKAGE for monthly delivery of multifile SDI results  
NEWS 27 Mar 20       EVENTLINE will be removed from STN  
NEWS 28 Mar 24       PATDPAFULL now available on STN  
NEWS 29 Mar 24       Additional information for trade-named substances without  
                        structures available in REGISTRY  
NEWS 30 Apr 11       Display formats in DGENE enhanced  
NEWS 31 Apr 14       MEDLINE Reload  
NEWS 32 Apr 17       Polymer searching in REGISTRY enhanced  
NEWS 33 Apr 21       Indexing from 1947 to 1956 being added to records in CA/CAPLUS  
NEWS 34 Apr 21       New current-awareness alert (SDI) frequency in  
                        WPIDS/WPINDEX/WPIX  
NEWS 35 Apr 28       RDISCLOSURE now available on STN  
NEWS 36 May 05       Pharmacokinetic information and systematic chemical names  
                        added to PHAR  
NEWS 37 May 15       MEDLINE file segment of TOXCENTER reloaded  
NEWS 38 May 15       Supporter information for ENCOMPPAT and ENCOMPLIT updated  
NEWS 39 May 16       CHEMREACT will be removed from STN  
NEWS 40 May 19       Simultaneous left and right truncation added to WSCA  
NEWS 41 May 19       RAPRA enhanced with new search field, simultaneous left and  
                        right truncation

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=> s HMe1

=> s 12 and antisense  
L3 1 L2 AND ANTISENSE

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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:631951 CAPLUS  
DN 135:191265  
TI Method of immortalization of human keratinocytes by down-regulation of  
14-3-3 sigma expression  
IN De Luca, Michele; Dellambra, Elena  
PA Provincia Italiana Della Congregazio Ne Dei Figli Dell'immacolata  
Concencne-Instituto Dermopatico Dell'immacolata, Italy  
SO Eur. Pat. Appl., 8 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1127942	A1	20010829	EP 2001-830116	20010221
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT			
		IE, SI, LT, LV, FI, RO			

US 2001018213 A1 20010830 US 2001-790808 20010223  
PRAI IT 2000-RM95 A 20000225  
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 1-9 ti 12

L2 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS  
TI Membrane penetrating peptides derived from nuclear localization sequence and uses as intracellular delivery devices for compound of interest

L2 ANSWER 2 OF 9 MEDLINE DUPLICATE 1  
TI Caveolin-1 mutations (P132L and null) and the pathogenesis of breast cancer: caveolin-1 (P132L) behaves in a dominant-negative manner and caveolin-1 (-/-) null mice show mammary epithelial cell hyperplasia.

L2 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS  
TI Magnetic-field and temperature dependence of the critical current in thin epitaxial films of the high-temperature superconductor YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>.

L2 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2003 ACS  
TI Method of immortalization of human keratinocytes by down-regulation of 14-3-3 sigma expression

L2 ANSWER 5 OF 9 MEDLINE DUPLICATE 2  
TI Prolactin negatively regulates caveolin-1 gene expression in the mammary gland during lactation, via a Ras-dependent mechanism.

L2 ANSWER 6 OF 9 MEDLINE  
TI 14-3-3 sigma is a p53-regulated inhibitor of G2/M progression.

L2 ANSWER 7 OF 9 MEDLINE DUPLICATE 3  
TI Molecular evolution of the 14-3-3 protein family.

L2 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS  
TI Epithelial cell-specific differentiation marker and a cDNA encoding it and its behavior in normal and abnormal development

L2 ANSWER 9 OF 9 MEDLINE DUPLICATE 4  
TI Complementary DNA cloning of a novel epithelial cell marker protein, **HME1**, that may be down-regulated in neoplastic mammary cells.

=> d 6 7 9 ab

1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE  
The answer numbers requested are not in the answer set.  
ENTER ANSWER NUMBER OR RANGE (1):end

=> d 6 7 9 ab 12

L2 ANSWER 6 OF 9 MEDLINE  
AB Exposure of colorectal cancer (CRC) cells to ionizing radiation results in a cell-cycle arrest in G1 and G2. The G1 arrest is due to p53-mediated induction of the cyclin-dependent kinase inhibitor p21WAF1/CIP1/SDI1, but the basis for the G2 arrest is unknown. Through a quantitative analysis of gene expression patterns in CRC cell lines, we have discovered that 14-3-3 sigma is strongly induced by gamma irradiation and other DNA-damaging agents. The induction of 14-3-3 sigma is mediated by a p53-responsive element located 1.8 kb upstream of its transcription start site. Exogenous introduction of 14-3-3 sigma into cycling cells results in a G2 arrest. As the fission yeast 14-3-3 homologs rad24 and rad25 mediate similar checkpoint effects, these results document a molecular mechanism for G2/M control that is conserved throughout eukaryotic

evolution and regulated in human cells by p53.

L2 ANSWER 7 OF 9 MEDLINE DUPLICATE 3  
AB Members of the highly conserved and ubiquitous 14-3-3 protein family modulate a wide variety of cellular processes. To determine the evolutionary relationships among specific 14-3-3 proteins in different plant, animal, and fungal species and to initiate a predictive analysis of isoform-specific differences in light of the latest functional and structural studies of 14-3-3, multiple alignments were constructed from forty-six 14-3-3 sequences retrieved from the GenBank and SwissProt databases and a newly identified second 14-3-3 gene from *Caenorhabditis elegans*. The alignment revealed five highly conserved sequence blocks. Blocks 2-5 correlate well with the alpha helices 3, 5, 7, and 9 which form the proposed internal binding domain in the three-dimensional structure model of the functioning dimer. Amino acid differences within the functional and structural domains of plant and animal 14-3-3 proteins were identified which may account for functional diversity amongst isoforms. Protein phylogenetic trees were constructed using both the maximum parsimony and neighbor joining methods of the PHYLIP(3.5c) package; 14-3-3 proteins from *Entamoeba histolytica*, an amitochondrial protozoa, were employed as an outgroup in our analysis. Epsilon isoforms from the animal lineage form a distinct grouping in both trees, which suggests an early divergence from the other animal isoforms. Epsilons were found to be more similar to yeast and plant isoforms than other animal isoforms at numerous amino acid positions, and thus epsilon may have retained functional characteristics of the ancestral protein. The known invertebrate proteins group with the nonepsilon mammalian isoforms. Most of the current 14-3-3 isoform diversity probably arose through independent duplication events after the divergence of the major eukaryotic kingdoms. Divergence of the seven mammalian isoforms beta, zeta, gamma, eta, epsilon, tau, and sigma (stratifin/**HME1**) occurred before the divergence of mammalian and perhaps before the divergence of vertebrate species. A possible ancestral 14-3-3 sequence is proposed.

L2 ANSWER 9 OF 9 MEDLINE DUPLICATE 4  
AB A full-length complementary DNA clone from a normal human mammary epithelial cell (strain 184) encoding a 25-kilodalton protein, **HME1**, was isolated. Expression of **HME1** RNA appears to be limited to epithelial cells. The **HME1** sequence has extensive sequence homology with bovine 14-3-3 protein, which is an activator of tyrosine and tryptophan hydroxylase. However, the tissue distribution, arrangement of charged amino acids, and location of potential phosphorylation sites of **HME1** differ from those of 14-3-3. Compared with normal mammary epithelial cells, expression of **HME1** RNA was dramatically low in two cell lines derived from human mammary carcinoma that were examined, and in a line of normal mammary epithelial cells transformed by oncogenes. **HME1** therefore appears to be a cellular differentiation marker that may be down-regulated during neoplastic transformation.

=> d 6 7 9 12

L2 ANSWER 6 OF 9 MEDLINE  
AN 1998324083 MEDLINE  
DN 98324083 PubMed ID: 9659898  
TI 14-3-3 sigma is a p53-regulated inhibitor of G2/M progression.  
AU Hermeking H; Lengauer C; Polyak K; He T C; Zhang L; Thiagalingam S;  
Kinzler K W; Vogelstein B  
CS Johns Hopkins Oncology Center, Baltimore, Maryland, USA.  
NC CA 43460 (NCI)  
CA 57345 (NCI)  
SO MOLECULAR CELL, (1997 Dec) 1 (1) 3-11.  
Journal code: 9802571. ISSN: 1097-2765.

CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AF029081; GENBANK-AF029082  
EM 199807  
ED Entered STN: 19980811  
Last Updated on STN: 19980811  
Entered Medline: 19980724

L2 ANSWER 7 OF 9 MEDLINE DUPLICATE 3  
AN 96394689 MEDLINE  
DN 96394689 PubMed ID: 8798343  
TI Molecular evolution of the 14-3-3 protein family.  
AU Wang W; Shakes D C  
CS Department of Biology, University of Houston, Houston, TX 77204-5513, USA.  
SO JOURNAL OF MOLECULAR EVOLUTION, (1996 Oct) 43 (4) 384-98.  
Journal code: 0360051. ISSN: 0022-2844.

CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Space Life Sciences  
EM 199702  
ED Entered STN: 19970227  
Last Updated on STN: 19970227  
Entered Medline: 19970211

L2 ANSWER 9 OF 9 MEDLINE DUPLICATE 4  
AN 93002614 MEDLINE  
DN 93002614 PubMed ID: 1390337  
TI Complementary DNA cloning of a novel epithelial cell marker protein,  
**HME1**, that may be down-regulated in neoplastic mammary cells.  
AU Prasad G L; Valverius E M; McDuffie E; Cooper H L  
CS Cell and Molecular Physiology Section, National Cancer Institute,  
Bethesda, Maryland 20892.  
SO CELL GROWTH AND DIFFERENTIATION, (1992 Aug) 3 (8) 507-13.  
Journal code: 9100024. ISSN: 1044-9523.

CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-L04285; GENBANK-M93010; GENBANK-S47136; GENBANK-S47137;  
GENBANK-S47164; GENBANK-S47165; GENBANK-S47166; GENBANK-S47167;  
GENBANK-S47168; GENBANK-S72771  
EM 199211  
ED Entered STN: 19930122  
Last Updated on STN: 19980206  
Entered Medline: 19921113

=> d his

(FILE 'HOME' ENTERED AT 12:49:29 ON 20 MAY 2003)

FILE 'MEDLINE, CAPLUS' ENTERED AT 12:49:55 ON 20 MAY 2003

L1 13 S HME1  
L2 9 DUP REM L1 (4 DUPLICATES REMOVED)  
L3 1 S L2 AND ANTISENSE

=> s 14-3-3  
L4 2477 14-3-3

=> s 14 and antisense  
L5 47 L4 AND ANTISENSE

=> dup rem 15  
PROCESSING COMPLETED FOR L5  
L6 33 DUP REM L5 (14 DUPLICATES REMOVED)

=> d 1-33 ti

L6 ANSWER 1 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Patterns of gene expression in Peyer's patches and M cell and the development of methods for targeting gene delivery using receptors present on these cells

L6 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Compositions and methods for inhibiting human immunodeficiency virus infection by down-regulating human cellular genes, and inhibitor identification methods

L6 ANSWER 3 OF 33 MEDLINE DUPLICATE 1  
TI Manganese superoxide dismutase-mediated gene expression in radiation-induced adaptive responses.

L6 ANSWER 4 OF 33 MEDLINE DUPLICATE 2  
TI ADP ribosylation factor regulates metabolism and antioxidant capacity of transgenic potato tubers.

L6 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Preventives or remedies for endoplasmic reticulum stress-associated diseases

L6 ANSWER 6 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI cDNA and protein sequences of human and mouse neuroprotein neurotrolin and their used in drug screening, diagnosis and treatment of Isaasa syndrome

L6 ANSWER 7 OF 33 MEDLINE DUPLICATE 3  
TI Efp targets 14-3-3 sigma for proteolysis and promotes breast tumour growth.

L6 ANSWER 8 OF 33 MEDLINE DUPLICATE 4  
TI Glycosylated phosducin-like protein long regulates opioid receptor function in mouse brain.

L6 ANSWER 9 OF 33 MEDLINE DUPLICATE 5  
TI Nitrite accumulation and nitric oxide emission in relation to cellular signaling in nitrite reductase **antisense** tobacco.

L6 ANSWER 10 OF 33 MEDLINE DUPLICATE 6  
TI Chk1 signaling pathways that mediated G(2)M checkpoint in relation to the cellular resistance to the novel topoisomerase I poison BNP1350.

L6 ANSWER 11 OF 33 MEDLINE DUPLICATE 7  
TI An ankyrin repeat-containing protein plays a role in both disease resistance and antioxidation metabolism.

L6 ANSWER 12 OF 33 MEDLINE DUPLICATE 8  
TI Quantitative and qualitative analysis of lipids in genetically modified potato tubers with varying rates of 14-3-3 protein synthesis.

L6 ANSWER 13 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Efp as a new molecular target for breast cancer therapy

L6 ANSWER 14 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Transgenic plants with enhanced ability to produce starch by transforming **antisense** 14-3-3 gene and

knocking-out the gene

L6 ANSWER 15 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Protein and cDNA sequence of Physcomitrella patens signal transduction stress-related proteins and uses in plants for increased tolerance to environmental stresses

L6 ANSWER 16 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Nucleic acids and proteins associated with cancer as antitumor targets

L6 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Method of immortalization of human keratinocytes by down-regulation of **14-3-3** sigma expression

L6 ANSWER 18 OF 33 MEDLINE DUPLICATE 9  
TI Pharmacological inhibitors of the mitogen-activated protein kinase (MAPK) kinase/MAPK cascade interact synergistically with UCN-01 to induce mitochondrial dysfunction and apoptosis in human leukemia cells.

L6 ANSWER 19 OF 33 MEDLINE DUPLICATE 10  
TI Proteome alterations in human hepatoma cells transfected with **antisense** epidermal growth factor receptor sequence.

L6 ANSWER 20 OF 33 MEDLINE DUPLICATE 11  
TI Regulation of starch accumulation by granule-associated plant **14-3-3** proteins.

L6 ANSWER 21 OF 33 MEDLINE  
TI Downregulation of 14-3-3sigma prevents clonal evolution and leads to immortalization of primary human keratinocytes.

L6 ANSWER 22 OF 33 MEDLINE DUPLICATE 12  
TI Characterization of a novel transcript of **14-3-3** theta in Sertoli cells.

L6 ANSWER 23 OF 33 MEDLINE DUPLICATE 13  
TI Modulation of the Ca(2+)-activated Cl(-) channel by 14-3-3epsilon.

L6 ANSWER 24 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Overexpression of **14-3-3.beta.** gene and its role in aflatoxin B1-induced hepatocellular carcinoma cells

L6 ANSWER 25 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Fatty acid elongase gene expression in guard cells regulates stomatal number

L6 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Human LYST protein complexes and LYST-interacting proteins and their diagnostic and therapeutic applications

L6 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Identification of loci involved in accelerated wound healing and the development of new wound healing promoters

L6 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Protein **14-3-3.sigma.** arrest of the cell cycle provides the basis for diagnostic assays and therapeutic compositions

L6 ANSWER 29 OF 33 CAPLUS COPYRIGHT 2003 ACS  
TI Identification of tumor-associated alleles of genes essential for cell viability and growth and the development of neoplasm inhibitors targeted against them

L6 ANSWER 30 OF 33 CAPLUS COPYRIGHT 2003 ACS  
 TI Diabetes-mediating proteins and their therapeutic uses

L6 ANSWER 31 OF 33 CAPLUS COPYRIGHT 2003 ACS  
 TI The expression of **14-3-3** isoforms in potato  
 is developmentally regulated

L6 ANSWER 32 OF 33 CAPLUS COPYRIGHT 2003 ACS  
 TI ADP-ribosylation factor (ARF) regulates cAMP synthesis in potato

L6 ANSWER 33 OF 33 MEDLINE DUPLICATE 14  
 TI Isolation and expression of an Arabidopsis **14-3-**  
**3**-like protein gene.

=> d 14 17 20 21 28

L6 ANSWER 14 OF 33 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:851410 CAPLUS  
 DN 136:1628  
 TI Transgenic plants with enhanced ability to produce starch by transforming  
 antisense **14-3-3** gene and  
 knocking-out the gene  
 IN Ferl, Robert J.; Sehnke, Paul C.; Chung, Hwa Jee; Wu, Ke; Hannah, Curtis  
 L.  
 PA University of Florida, USA  
 SO PCT Int. Appl., 35 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001088170	A2	20011122	WO 2001-US15841	20010517
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 2002062497	A1	20020523	US 2001-859822	20010517
PRAI	US 2000-204746P	P	20000517		

L6 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:631951 CAPLUS  
 DN 135:191265  
 TI Method of immortalization of human keratinocytes by down-regulation of  
**14-3-3** sigma expression  
 IN De Luca, Michele; Dellambra, Elena  
 PA Provincia Italiana Della Congregazio Ne Dei Figli Dell'immacolata  
 Concene-Instituto Dermopatico Dell'immacolata, Italy  
 SO Eur. Pat. Appl., 8 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1127942	A1	20010829	EP 2001-830116	20010221
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			

US 2001018213 A1 20010830 US 2001-790808 20010223  
PRAI IT 2000-RM95 A 20000225  
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 20 OF 33 MEDLINE DUPLICATE 11  
AN 2001226831 MEDLINE  
DN 21143383 PubMed ID: 11149942  
TI Regulation of starch accumulation by granule-associated plant **14**  
-3-3 proteins.  
AU Sehnke P C; Chung H J; Wu K; Ferl R J  
CS Program in Plant Molecular and Cellular Biology, Department of  
Horticultural Sciences, University of Florida, Gainesville, FL 32611,  
USA..  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
AMERICA, (2001 Jan 16) 98 (2) 765-70.  
Journal code: 7505876. ISSN: 0027-8424.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200104  
ED Entered STN: 20010502  
Last Updated on STN: 20030105  
Entered Medline: 20010426

L6 ANSWER 21 OF 33 MEDLINE  
AN 2000293208 MEDLINE  
DN 20293208 PubMed ID: 10831615  
TI Downregulation of 14-3-3sigma prevents clonal evolution and leads to  
immortalization of primary human keratinocytes.  
AU Dellambra E; Golisano O; Bondanza S; Siviero E; Lacal P; Molinari M;  
D'Atri S; De Luca M  
CS Laboratory of Tissue Engineering, IDI, Istituto Dermopatico  
dell'Immacolata, 00040 Rome, Italy.  
SO JOURNAL OF CELL BIOLOGY, (2000 May 29) 149 (5) 1117-30.  
Journal code: 0375356. ISSN: 0021-9525.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200007  
ED Entered STN: 20000714  
Last Updated on STN: 20000714  
Entered Medline: 20000706

L6 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:405087 CAPLUS  
DN 131:57413  
TI Protein **14-3-3**.sigma. arrest of the cell  
cycle provides the basis for diagnostic assays and therapeutic  
compositions

IN Hermeking, Heiko; Vogelstein, Bert; Kinzler, Kenneth W.

PA The Johns Hopkins Univ., USA

SO PCT Int. Appl., 73 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9931240	A2	19990624	WO 1998-US26924	19981218
	WO 9931240	A3	19990902		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,

DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,  
MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,  
TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,  
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
US 6335156 B1 20020101 US 1998-210748 19981215  
CA 2315279 AA 19990624 CA 1998-2315279 19981218  
AU 9918314 A1 19990705 AU 1999-18314 19981218  
AU 744193 B2 20020221  
EP 1037987 A2 20000927 EP 1998-963256 19981218  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI  
PRAI US 2002102245 A1 20020801 US 2001-939581 20010828  
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